

WHAT IS CLAIMED IS:

1. A disk drive comprising a turntable mounted on a chassis for receiving and rotating a disk, a guide shaft fixed to said chassis, an optical pickup rotatably mounted on said guide shaft for moving along said guide shaft and a beam angle adjusting mechanism so provided as to apply a  
5 light beam emitted from said optical pickup to the surface of said disk at a prescribed angle, wherein

said beam angle adjusting mechanism consists of a turntable angle adjusting mechanism mounted on said turntable for adjusting inclination of said disk in a direction along said guide shaft and an optical pickup angle  
10 adjusting mechanism mounted on said optical pickup for adjusting the angular position of said optical pickup around said guide shaft thereby adjusting the angle of said light beam in a plane intersecting with said guide shaft,

said optical pickup angle adjusting mechanism consists of an  
15 external screw member and an internal screw part,

said external screw member is formed by integrating a flange engaging part engaging with said chassis for holding the edge of said chassis with two flanges to be located on a reference height position based on said chassis, an external screw portion and a cylindrical press-fit part  
20 located between said flange engaging part and said external screw portion, and

said internal screw part includes a nut fixed to a pickup support part partially forming said optical pickup and a press-fit hole formed in said pickup support part coaxially with said nut for receiving said press-fit part  
25 in a close contact manner,

for engaging said flange engaging part of said external screw member with the edge of said chassis, fitting said external screw portion with said nut and press-fitting said press-fit part into said press-fit hole thereby adjusting the distance between said chassis and said internal  
30 screw part.

2. A disk drive comprising a turntable mounted on a chassis for receiving and rotating a disk, a guide shaft fixed to said chassis, an optical pickup rotatably mounted on said guide shaft for moving along said guide shaft and a beam angle adjusting mechanism so provided as to apply a light beam emitted from said optical pickup to the surface of said disk at a prescribed angle, wherein

said beam angle adjusting mechanism consists of a turntable angle adjusting mechanism mounted on said turntable for adjusting the angle of said disk in a direction along said guide shaft and an optical pickup angle adjusting mechanism mounted on said optical pickup for adjusting the angular position of said optical pickup around said guide shaft thereby adjusting the angle of said light beam in a plane intersecting with said guide shaft,

said optical pickup angle adjusting mechanism consists of an external screw member and an internal screw part,

said external screw member is formed by integrating a flange engaging part engaging with said chassis for holding the edge of said chassis with two flanges to be located on a reference height position based on said chassis and an external screw portion having an elliptic section, and

said internal screw part consists of a nut having a circular section fixed to a pickup support part partially forming said optical pickup while the diameter of said circular section is smaller than the major axis of said elliptic section of said external screw portion,

for engaging said flange engaging part of said external screw member with the edge of said chassis and fitting said external screw portion with said nut having said circular section thereby adjusting the distance between said chassis and said internal screw part.

3. The disk drive according to claim 1, wherein

said nut and said pickup support part are integrated with each other by integral injection molding.

4. The disk drive according to claim 2, wherein  
said nut and said pickup support part are integrated with each other  
by integral injection molding.

5. A beam angle adjusting structure arranged in a disk drive  
comprising a turntable mounted on a chassis for receiving and rotating a  
disk, a guide shaft fixed to said chassis and an optical pickup rotatably  
engaging with said guide shaft for moving along said guide shaft on at least  
5 either said turntable or said optical pickup for adjusting a light beam  
emitted from said optical pickup to be applied to the surface of said disk at  
a prescribed angle, said beam angle adjusting structure consisting of an  
external screw member and an internal screw part, wherein  
said external screw member has a reference position engaging part  
10 located on a reference height position based on said chassis for engaging  
with said chassis, a cylindrical press-fit part and an external screw portion,  
and  
said internal screw part has an internal screw portion integrated  
with said optical pickup and a press-fit hole receiving said press-fit part.

6. A beam angle adjusting structure arranged in a disk drive  
comprising a turntable mounted on a chassis for receiving and rotating a  
disk, a guide shaft fixed to said chassis and an optical pickup rotatably  
engaging with said guide shaft for moving along said guide shaft on at least  
5 either said turntable or said optical pickup for adjusting a light beam  
emitted from said optical pickup to be applied to the surface of said disk at  
a prescribed angle, said beam angle adjusting structure consisting of an  
external screw member and an internal screw part, wherein  
said external screw member has a reference position engaging part  
10 located on a reference height position based on said chassis for engaging  
with said chassis and an external screw portion having an elliptic section,  
and  
said internal screw part has an internal screw portion integrated  
with said optical pickup with a circular section having a diameter smaller  
15 than the major axis of said elliptic section of said external screw portion.